

Table 4: Exinite Maceral Abundance and Fluorescence Characteristics, Yolla-1

Depth (m)	Exinite Macerals	Lithology/Comments
1760-69	bmite(Ra;d0),spo(Ra;m0),?oil(Ra-Vr;iY-m0),cut(Vr;m0),res(Tr;m0).	Silty shale; ?oil occurs as coatings on quartz grains.
1958-67	res(Ab;iY-dB),spo(Co;mY-m0),cut(Ra;m0),lipto(Ra;m0-d0),exs(Vr;m0-d0),?phyto(Tr;mY),?oil(Tr;iG).	~40% coal, ~40% siltstone, ~20% sandstone; coals contain up to 25% resinite (30% exinite) and contain exsudatinite (primary oil i.e. formed in situ). ?oil occurs in the siltstone as coatings on quartz grains. Fluorescence colours of resinite indicate that the generation of oil has commenced from this maceral.
2165-74	res(Ab;iY-d0),sub(Ab;d0),spo(Co;mY-m0),cut(Sp;m0),exs(Ra;iY-m0),lipto(Ra;m0).	Chiefly coal, 5-10% siltstone; coal as above.
2372-81	res(Co-Ab;m0-dB),spo(Co;m0-d0),cut(sp;m0-d0),lipto(Sp;m0).	Chiefly shale, 5-10% well cemented sandstone, ~5% coal.
2573-82	res(Ab;m0-dB),sub(Ab;d0),spo(Ab;m0-dB),cut(Co;m0-dB),exs(Ra;m0-d0).	Coal (carbonaceous shale and carbonate cavings constitute <5% of sample).
2731	lipto(Ra-Vr;d0),spo(Vr;d0),?oil(Vr;iG-iY),cut(Vr;d0),lama(Vr;d0).	Shale; oil is interstitial to the larger mineral grains.
2774-83	lipto(Vr;d0),spo(Tr;d0),cut(Tr;d0).	Chiefly igneous/volcanics ~20% siltstone, ~5% shale.
2885	lipto(Ra;d0),spo(Vr;d0),cut(Vr;d0),lama(Vr;d0).	Shale.
2945	oil(Ra;iG-iY),lama(Ra-Vr;d0),cut(Vr;d0),spo(Vr;d0-dB).	Siltstone; oil as above.
2962-71	spo(Vr;d0),?phyto(Vr;d0),lipto(Vr;d0),cut(Vr-Tr;d0).	Chiefly siltstone (with patchy distribution of carbonate rich and sandy lithologies) ~5% igneous/volcanics, ~1% coal. Coal and igneous volcanics are probably cavings.